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APPLICATION NO.	FILING DAT	TE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/776,935	02/10/200	14	Takashi Watanabe	60827 (70840)	2391	
21874	7590 07/	/14/2005		EXAM	EXAMINER	
EDWARDS & ANGELL, LLP				VU, HU	VU, HUNG K	
P.O. BOX 55	874					
BOSTON, N	/IA 02205	ART UNIT	PAPER NUMBER			
				2811		
			D. FD. () D. OF () (0.00)			

DATE MAILED: 07/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/776,935	WATANABE, TAKASHI
Office Action Summary	Examiner	Art Unit
	Hung Vu	2811
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tired within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed vs will be considered timely. I the mailing date of this communication. D (35 U.S.C. § 133).
Status		·
 Responsive to communication(s) filed on <u>22 Ap</u> This action is FINAL. Since this application is in condition for allowar closed in accordance with the practice under E 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1015 is/are pending in the application 4a) Of the above claim(s) 11-15 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	n from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplished any accomplished any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example.	epted or b) objected to by the drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119	•	•
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summan Paper No(s)/Mail D 5) Notice of Informal 6) Other:	

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Invention of Group I, Claim 1-10, in the reply filed on 04/22/05 is acknowledged. The traversal is on the ground(s) that a comprehensive search for the invention of Group I would necessarily involve a search of, as well as consideration of references appearing in, the classes/subclasses associated with the invention of Group II. This is not found persuasive because it is well settled that related inventions are restrictable if it is shown that these inventions distinct. It was clearly established that these inventions are in fact distinct.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 11-15 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected Invention, there being no allowable generic or linking claim.

Applicant timely traversed the restriction (election) requirement in the reply filed on 04/22/05.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 8 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Miida (PN 6,504,194).

Application/Control Number: 10/776,935

Art Unit: 2811

Miida discloses, as shown in Figures 1-17, a solid-state imaging device, comprising:

at least one pixel section;

a control section for controlling an operation of the at least one pixel section;

wherein:

the at least one pixel section includes:

a light receiving section (15a) for outputting charges by performing photo-electric conversion of light incident thereon, and

a transistor section (112) having a charge accumulation region (25) for accumulating the charges output by the light receiving section;

the transistor section outputs an output signal representing a voltage value corresponding to an amount of charges accumulated in the charge accumulation region;

the control section, for resetting the charges accumulated in the charge accumulation region after the output signal is output from the transistor section, injects charges into the charge accumulation region before discharging the accumulated charges from the charge accumulation region (see Figure 8).

Regarding claim 2, Miida discloses the device further comprising a substrate, wherein:

the transistor section further includes a gate electrode (19), a source electrode (16a), and a drain electrode (17a);

the control section injects the charges into the charge accumulation region from the substrate by applying a first gate voltage to the gate electrode.

Application/Control Number: 10/776,935

Art Unit: 2811

Regarding claim 8, Miida discloses the device including a plurality of plural section which are arranged in a matrix (see Figure 8).

Regarding claim 10, Miida discloses the at least one pixel section further includes a substrate including a well region (12);

the transistor section includes:

an annular gate electrode (19),

a source electrode (16a) surrounded by the gate electrode,

a drain electrode (17a) surrounding the gate electrode,

a channel region provided at a position which is in the well region and below the gate electrode:

the charge accumulation region is provided at a position which is in the well region and below the channel region, so as to surround the source electrode, and

the transistor section is connected to the light receiving section via the well region.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-7 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miida (PN 6,504,194).

Art Unit: 2811

Miida discloses the claimed invention including the solid-state imaging device. Miida further discloses the voltage is applied to the gate electrode. Miida does not disclose the values of the voltage applied to the gate electrode to operate the device. However, claims directed to apparatus must be distinguished from the prior art in terms of structure rather than function. In re Danley,120 USPQ 528, 531 (CCPA 1959). "Apparatus claims cover what a device is, not what a device does." (emphasis in original) Hewlett - Packard Co. v. Bausch & Lomb Inc., 15 USPQ2d 1525, 1528 (Fed. Cir. 1990).

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung K. Vu whose telephone number is (571) 272-1666. The examiner can normally be reached on Mon-Thurs 6:00-3:30, alternate Friday 7:00-3:30, Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C. Lee can be reached on (571) 272-1732. The Central Fax Number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Vu

July 7, 2005

Hung Vu

Primary Examiner